UNIT-2 Theory Group Binary Operations • Let G be a monempty set. Then GXG = [(a,b): a ∈ G and b ∈ G) Thus a binary operation on G is a function that assign each ordered pairs of elements of Gan element of G. The symbols t, ., 0, x etc. are used to denote binary operation/s on a set thus + will be a binary operation on Gillard only il atb E'G for Vall a, b E G and atb is unique. Similarly

X will be a binary in a fine x